

INFORMATION DISCLOSURE CITATION
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ATTY DOCKET NO.
080/02295

SERIAL NO.
US Continuation of 09/537,002

APPLICANT(S)
Andrew L. PEARLMAN

FILING DATE

Herewith

GROUP

To be assigned

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
M	1	4,510,939	16 Apr '85	BRENNAN, H. S. et al.			
	2	5,070,862	10 Dec '91	BERLANT, S. R.			
	3	4,820,973	Apr '98	ALVAREZ			
	4	6,122,544	Oct '00	ORGAN			
	5	4,763,660	16 Aug '88	KROLL et al.			
	6	5,295,483	22 Mar '94	NOWACKI et al.			
	7	4,896,673	30 Jan '90	ROSE et al.			
	8	5,099,846	31 Mar '92	HARDY			
	9	4,082,087	4 Apr '78	HOWSON			
	10	4,763,660	16 Aug '88	KROLL et al.			
M	11	5,045,249	3 Sep '91	JIN et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
M	12	DE 42 25 112	9 Dec '93	GERMANY				
	13	EP 0 050 353	19 Oct '81	EUROPE				
	14	GB 2 138 148	17 Oct '84	ENGLAND				
	15	FR 2 655 835	21 Jun '91	FRANCE				
M	16	GB 2 276 326	28 Sep '94	ENGLAND				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

M	17	MASUDA et al.; "Topographical Map of Innervation Zones within Single Motor Units Measured with a Grid Surface Electrode"; August 1988; pp. 623-628; IEEE Transactions on Biomedical Engineering; Vol. 35; No. 8; XP000005699; New York, US
M	18	MONSTER et al.; "A System for the Rapid Acquisition of Surface Potential Maps of Human Skeletal Muscle Motor Units;" February 2, 1980; pp. 110-112; IEEE Transactions on Biomedical Engineering; Vol. 27; No. 2; XP002114215; New York, US

EXAMINER

G. Manuel

DATE CONSIDERED

7/2/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>M</i>	19	4,387,721	14 Jun '83	ENJOJI			
	20	5,247,938	28 Sep '93	SILVERSTEIN et al.			
	21	4,537,203	27 Aug '85	MACHIDA			
	22	4,805,621	21 Feb '89	HEINZE et al.			
	23	4,823,797	25 Apr '89	HEINZE et al.			
	24	5,282,840	1 Feb '94	HUDRLIK			
	25	5,353,802	11 Oct '94	OLLMAR			
	26	5,454,377	3 Oct '95	DZWONCZYK et al.			
	27	5,063,937	12 Nov '91	EZENWA et al.			
	28	4,291,708	29 Sep '81	FREI et al.			
<i>M</i>	29	4,458,694	10 Jul '84	SOLLISH et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES
<i>M</i>	30	WO 94/20012	15 Sep '94	PCT			
	31	EP 0 000 759	21 Feb '79	EUROPE			
	32	WO 91/13584	19 Sep '91	PCT			
	33	EP 0 190 043	6 Aug '86	EUROPE			
<i>M</i>	34	WO 96/12439	2 May '96	PCT			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>M</i>	35	RIU et al.; "In Viv Static Imaging for the Reactive Parts in Electrical Impedance Tomography Using Multifrequency Techniques;" October 1992; pp. 1706-1707; Proceedings of the Annual International Conference of the Engineering in Medicine and Biology Society; Vol. 5; No. 14; XP000514393; US
<i>M</i>	36	CESPEDES et al.; "Elastography: Elastic Imaging Using Ultrasound with Application to Muscle and Breast In Vivo;" April 1993; pp. 73-88; Ultrasonic Imaging; Vol. 15; No. 2; XP000383142; Orlando, US

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G. Mansfield

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INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				ATTY DOCKET NO. 080/02295	SERIAL NO. US Continuation of 09/537,007 <i>004</i>		
				APPLICANT(S) Andrew L. PEARLMAN			
				FILING DATE Herewith	GROUP To be assigned		
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>M</i>	37	4,539,640	3 Sep '85	FRY et al.			
	38	4,617,939	21 Oct '86	BROWN et al.			
	39	4,819,658	11 Apr '89	KOLODNER			
	40	5,143,079	1 Sep '92	FREI et al.			
	41	5,178,147	12 Jan '93	OPHIR et al.			
	42	4,493,039	8 Jan '85	GREGORY, W. D.			
<i>M</i>	43	5,272,624	21 Dec '93	GISSER, D. G. et al.			
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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
<i>M</i>	44	GB 2 273 987	6 Jul '94	ENGLAND			
<i>M</i>	45	WO 93/23112	25 Nov '93	PCT			
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
<i>M</i>	46	EYUBOGLU et al.; "In Vivo Imaging of Cardiac Related Impedance Changes;" March 1989; pp. 39-45; IEEE Engineering in Medicine and Biology; Vol. 8; No. 1; XP000002279; New York, US					
<i>M</i>	47	RECORD et al.; "Multifrequency Electrical Impedance Tomography;" July 1992; pp. 47-50; Clinical Physics and Physiological Measurement, Suplement A; Vol. 13; XP000431598; York, GB					

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004

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		Docket Number (Optional) 080/02295	Application Number US Continuation of 09/537,00
		Applicant(s) Andrew L. PEARLMAN	Filing Date Herewith
*EXAMINER INITIAL	OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>		
48	Zhili Huang, et al.; "Bioimpedance Measurement: Theory, Experiment and Application;" November 1987; pp. 1416-1427 Proceedings of the Ninth Annual Conference of the IEEE Engineering in Medicine and Biology Society; Vol. 3; XP000015434		
49	PIPERNO, G. et al.; "Breast Cancer Screening by Impedance Measurements;" 1990; pp. 111-117; Frontiers Med. Biol.; Vol. 2; plus two attached pages "Mammoscan: A Promising New Technology for Breast Screening and Diagnosis;" and "Mammoscan Breast Impedance System"		
50	ESSELLE, et al.; "Capacitive Sensors for In-Vivo Measurements of the Dielectric Properties of Biological Materials;" March 1988; pp. 101-105; IEEE Transactions on Instrumentation & Measurement; Vol. 37; No. 1		
51	GERSING, E.; "Messung der Elecktrischen Impedanz von Organen-Apparative Ausrustung fur Forschung und Klinische Anwendung;" 1991; pp. 6-11; Biomed. Technik 36; (including abstract in English)		
52	VRANA, J. et al.; "Mesure de L'Impedance des Tissus Hepatiques Transforms pas des Processus Lesionels;" 1992; pp. 165-168; Ann. Gastroentreol. Hepatol.; Vol. 28; No. 4; (including abstract in English)		
53	RAJSHEKHAR, V.; "Continuous Impedance Monitoring During CT-Guided Stereotactic Surgery: Relative Value in Cystic and Solid Lesions;" 1992; pp. 439-444" British Journal of Neurosurgery (1992); Vol. 6		
54	MASTROTOTARO, J. J. et al.; "Rigid and Flexible Thin-Film Multi-Electrode Arrays for Transmural Cardiac Recording;" March 1992; pp. 271-279; IEEE Trans. Biomed. Engr.; Vol. 39; No. 3		
55	BUCKLES, D. S. et al.; "Image-Base Display of Activation Patterns Derived from Scattered Electrodes;" IEEE Trans. Biomed. Engr.; Vol. 42; No. 1; January 1995; pp. 111-115		
56	URBAN, G. A. et al.; "Development of a Multiple Thin-Film Semimicro DC-Probe for Intracerebral Recordings;" October 1990; pp. 913-917 IEEE Trans. Biomed. Eng.; Vol. 37; No. 10		
57	SMITH, R. W. M. et al.; "A Real-Time Electrical Impedance Tomography System for Clinical Use-Design and Preliminary Results;" February 1995; pp. 133-139; IEEE Trans. Biomed. Eng.; Vol. 42		
58	SUROWIEC, A. J. et al.; "Dielectric Properties of Breast Carcinoma and the Surrounding Tissues;" April 1988; pp. 257-263; IEEE Trans. Biomed. Eng.; Vol. 35; No. 4		
59	HEIMBACH, M.; "Measures of Preformance;" 1990; pp. 158-174; Electrical Impedance Tomography; (12.1)		
EXAMINER <i>G. Manuel</i>		DATE CONSIDERED 7/2/03	

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INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Docket Number (Optional) 080/02295	Application Number US Continuation of 09/537,004
Applicant(s) Andrew L. PEARLMAN	
Filing Date Herewith	Group Art Unit To be assigned

*EXAMINER INITIAL	OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>	
M	60	DAVIES, R. J. et al.; "detection of the Cancer-Prone Colon, Using Transepithelial Impedance Analysis;" April 1989; pp. 480-484; Arch Surg.; Vol. 124
	61	MORIMOTO, T. et al.; "A Study of the Electrical Bio-Impedance of Tumors;" 1993; pp. 25-32; Journal of Investigative Surgery; Vol. 6
	62	MAN et al.; "Results of Pre-Clinical Test for Breast Cancer Detection by Dielectric Measurements;" August 12-24, 1979; International Conference of Medical and Biological Engineering, V International Conference of Medical Physics; 30.4; Jerusalem, Israel
	63	RIU, P. et al.; "A Broadband System for Multifrequency Static Imaging in Electrical Impedance Tomography"; 1992; pp. 61-65; Clin. Physiol. Meas.; Vol. 13; Suppl. A
	64	RIGAUD, B. et al.; "Experimental Acquisition System for Impedance Tomography with Active Electrode Approach;" November 1, 1993; pp. 593-599; Medical and Biological Engineering and Computing; Vol. 31; No. 6; XP000415771
	65	KORTE, C. J.; "Subsurface Electrical Impedance Imaging Using Orthogonal Linear Electrode arrays;" January 16, 1996; pp. 41-46; IEEE Proceedings: Science, Measurement and Technology; Vol. 143; No. 1; XP006006750
M	66	ANAH, J. et al.; "Multi-Function Interface Unit for Applied Potential Tomography;" November 1998; pp. 287-288; Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society (IEEE Cat. No. 88CH2566-8); XP002171794
EXAMINER	DATE CONSIDERED	
G. Manuel	7/2/03	

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INFORMATION DISCLOSURE STATEMENT

Atty. Docket:
701030-11Serial No.:
09/537,004
09/995,217

Applicant: Andrew L. Pearlman

Filing Date: March 28, 2000 Group: 3737

U.S. PATENT DOCUMENTS

J1050 U.S.P.T.O.
09/995,217
11/27/01

Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date
M	A1	4,493,039	Jan. 8, 1985	Gregory	—	—	
M	B1	5,272,624	Dec. 21, 1993	Gisser et al.	—	—	
	C1						
	D1						
	E1						
	F1						
	G1						
	H1						
	I1						
	J1						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-Class	Translation
M	K1	2 273 987	July 6, 1994	United Kingdom	—	—	<input type="checkbox"/> Yes <input type="checkbox"/> No
M	L1	WO 93/23112	Nov. 25, 1993	International	—	—	<input type="checkbox"/> Yes <input type="checkbox"/> No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

M	M1	Rigaud, B. et al; "Experimental Acquisition System for Impedance Tomography with Active Electrode Approach" November 1, 1993; pp 593-599, Medical and Biological Engineering and Computing; Vol. 31; No. 6: XP0000415771
M	N1	Korte, C.J.; "Subsurface Electrical Impedance Imaging Using Orthogonal Linear Electrode arrays", Jan. 16, 1996; pp. 41-46, IEEE Proceedings: Science, Measurement and Technology; Vol. 143, No. 1, XP006006750
M	O1	Anah, J. et al; "Multi-Function Interface Unit for Applied Potential Tomography"; Nov. 1998; pp. 287-288; Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society (IEEE Cat. No. 88CH2566-8); XP002171794
M	P1	Riu et al., "In Viv Static Imaging for the Reactive Parts in Electrical Impedance Tomography Using Multifrequency Techniques;" October 1992; pp-1706-1707; Proceedings of the Annual International Conference of the Engineering in Medicine and Biology Society; Vol. 5; No. 14; XP000514393;US

Examiner:

G. Manuel

Date Considered:

10/4/02

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